

## **SECTION 105 - REINFORCING STEEL**

### **1. GENERAL**

This work shall consist of furnishing and placing Billet Steel Bars for concrete reinforcement in accordance with the latest version of Section 711 of the Kansas Department of Transportation Standard Specifications or as stated herein.

### **2. BILLET STEEL BARS**

Billet Steel Bars shall conform to the requirements of the ASTM Designation A615 Grade 60. The size of reinforcing bar shall be specified in the Drawings or Standard Specifications.

### **3. CERTIFICATION AND IDENTIFICATION**

A. Certification. One copy of a certified mill test report shall be furnished to the City for each lot of billet steel reinforcement bars proposed for use on this project. The mill test report shall show the following information:

1. The process or processes used in the manufacture of the steel from which the bars were rolled.
2. Identification of the heat of open-hearth, basic oxygen, or electric furnace or the lot of acid bessemer steel from which the bars are rolled.
3. Chemical and physical properties of the heat from which the bars were rolled.

B. Identification. The bars in each lot shall be legibly tagged by the manufacturer or fabricator. The tag shall show the manufacturer's test number and lot number or other designation that will identify the material with the certificate issued for that lot of steel.

There shall be no evidence of piping or visual flaw on the sheared ends of the bars.

### **4. PLACING, SUPPORTING, AND FASTENING**

The reinforcement shall be held securely in place at the proper position and spacing as indicated on the Drawings by the use of pins, bar chairs wire ties, and/or other approved devices or methods. Reinforcing bars shall be securely fastened together. Reinforcement placed in any member shall be inspected and approved by the Engineer before any concrete is placed. Laying or driving bars into the concrete after placement will not be permitted. The use of small stones or concrete or wood blocks for supporting reinforcement will not be permitted.

### **5. MEASUREMENT AND PAYMENT**

No direct payment shall be made as this work shall be considered subsidiary to other bid items.